

Peeyush Mehta
Professor, Operations Management Group
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Updated on May 30, 2021

Academic Work Experience

- November 2015 - till date
Professor
Operations Management Group
Indian Institute of Management Calcutta
- November 2011 - October 2015
Associate Professor
Operations Management Group
Indian Institute of Management Calcutta
- November 2010 - October 2011
Associate Professor
Department of Industrial and Management Engineering (IME)
Indian Institute of Technology Kanpur
IME Department offers MBA, M-Tech, and Ph.D. program in Management.
- March 2005 - October 2010
Assistant Professor
Department of Industrial and Management Engineering
Indian Institute of Technology Kanpur
- May 2004 – March 2005
Research Fellow, Singapore - MIT Alliance
Nanyang Technological University Singapore

Industry Work Experience

- May 1995 – April 1998
Essar Power. Hazira
Involved in Commissioning and Operations of General Electric Gas Turbines.

Education

- Ph.D., Indian Institute of Management Ahmedabad, India. 2004
- Bachelors of Engineering in Mechanical, Jodhpur University. 1994

Research

• Research Interests

Supply Chain Coordination, Inventory Control, Game Theory, Manufacturing Strategy, and Service Operations

• Publications

- Abhishek Shinde , **Peeyush Mehta** & R. K. Amit (2020): An experimental-investigation of newsvendor decisions under ambiguity, *International Journal of Production Research*, doi:10.1080/00207543.2020.1797206.
- Ghosh, Debabrata, **Mehta, Peeyush** and Avittathur, Balram. (2021), "Supply chain capabilities and competitiveness of high-tech manufacturing start-ups in India", *Benchmarking: An International Journal*, Vol. 28 No. 5, pp. 1783-1808. <https://doi.org/10.1108/BIJ-12-2018-0437>.
- Debabrata Ghosh, **Peeyush Mehta**, Balram Avittathur, Uttam K Sarkar. 2018. Unlocking the potential of India's high-tech start-ups. *Supply Chain Management Review*, 22(2), 8-10.
- K Thyagaraj, **Peeyush Mehta**, Kripa Shanker. 2015. Managing Product Variety with Advance Selling and Capacity Restrictions. *International Journal of Production Economics*, 170, 287 - 296.
- R K Amit, **Peeyush Mehta**, Rajeev R Tripathi. 2015. Optimal Shelf-Space Stocking Policies using Stochastic Dominance under Supply-driven Demand Uncertainty. *European Journal of Operational Research*, 246(1), 339 – 342.
- Sudhir Ambekar, Rohit Kapoor, **Peeyush Mehta** . 2015. Structural mapping of public distribution system using multi-agent systems. *Business Process Management Journal*, 21(5), 1066-1090.
- K Thyagaraj, **Peeyush Mehta**, Kripa Shanker. 2014. Integrating operations and marketing decisions using delayed differentiation of products and guaranteed delivery time under stochastic demand. *European Journal of Operational Research*, 237(2), 617 - 627.

- L. Devangan, R. K. Amit, **Peeyush Mehta**, S. Swami, K. Shanker. 2013. Individually Rational Buyback Contracts with Inventory Level Dependent Demand. *International Journal of Production Economics*.142(2), 381 - 387.
- M. Zhang, Kulwant Pawar, Janat Shah, **Peeyush Mehta**. 2013. Evaluating outsourcing partners' capability: a case study from the pharmaceutical supply chain. *Journal of Manufacturing Technology Management*. 24(8), 1080 - 1101.
- **Peeyush Mehta**, Prabha Sharma, Deepu Philip, Pushkar Pandit. 2012. Minimizing Completion Time Variance in Permutation Flowshop Scheduling Problem. *Computers and Operations Research*, 39, 1000 - 1009.
- R K Amit , **Peeyush Mehta**. 2011. Repeated Contracts for Supply Chain Coordination under Asymmetric Information: A Review and Future Directions. *Technology, Operations and Management*. 2(2), 36 - 42.
- Rohit Bhatnagar, **Peeyush Mehta**, Chee Chong Teo. 2011. Coordinated Approach to Planning and Scheduling Decisions in Supply Chains with Multiple Supply Modes. *International Journal of Production Economics*, 131(2), 473 – 482.
- Prashant Rai, P. Ramkumar, A.I.Sivakumar, **Peeyush Mehta**, A.K. Mittal. 2011. Impact of Aggregating Supplies from Single Supplier to a Cluster of Producers: Opportunities for 3PL Service Providers. *International Journal of Operational Research*. 12(2), 192 - 206.
- Pankaj Chandra, **Peeyush Mehta**, Devanath Tirupati. 2009. Permutation Flowshop Scheduling with Earliness and Tardiness Penalties. *International Journal of Production Research*, 47(20), 5591-5610.
- Niraj Gupta, **Peeyush Mehta**. 2007. Supply Contracts in Logistics: Case of Publishing Industry. *Journal of Science and Engineering Research*. 14(1,2), 183-188.

• **Manuscripts Under Review/Under Preparation**

- Abhishek Shinde, **Peeyush Mehta**, R K Amit. Decision Bias in Newsvendor Problem Under Ambiguity: An Experimental Investigation. Under review in *International Journal of Production Research*.
- **Peeyush Mehta**, Pankaj Chandra, Devanath Tirupati. Joint Sales and Production Planning in a Multi-Stage Batch Production Environment. *Manuscript*

Under Preparation

- Satyam Agarwal, **Peeyush Mehta**, Janat Shah, K Pawar. Pipeline Drugs Portfolio Management with Target Service Level. *Manuscript Under Preparation*
- Vinod Parmar, **Peeyush Mehta**, Janat Shah, K Pawar. In-licensing Contracts in Pharmaceuticals Industry under Adverse Selection. *Manuscript Under Preparation*

- **Peer Reviewed Paper Presentations**

9th Annual International Conference of Industrial Engineering & Operations Management (IEOM), Bangkok, March, 2019.

22nd annual conference of Society of Operations Management (SOM), IIM Kozhikode, December 2018.

21st annual conference of Society of Operations Management (SOM), Ahmedabad University, December 2017.

The 9th International Forum on Shipping, Ports and Airports (IFSPA). Hong Kong, May 2017.

21st annual conference of Society of Operations Management (SOM), IIITM Gwalior, December 2016.

2nd World Conference on Supply Chain Management. Thailand. May 2016.

Seventh POMS-HK International Conference, Macau, January 2016.

20th annual conference of Society of Operations Management (SOM), IIM Calcutta, December 2015.

27th European Conference on Operational Research, Glasgow, UK. July 2015.

18th annual conference of Society of Operations Management (SOM), IIT Roorkee, December 2014.

17th annual conference of Society of Operations Management (SOM), IIT Madras, December 20-22, 2013.

16th annual conference of Society of Operations Management (SOM), IIT Delhi, December 21-23, 2012.

15th Annual Conference of Society of Operations Management (SOM), IIM Calcutta, December 18-20, 2011.

International Conference on Technology and Business Management (ICTBM-11), SZ-ABIST, Dubai, March 28 - 30, 2011.

14th Annual Conference of Society of Operations Management (SOM), NITIE Mumbai, December 17-19, 2010

13th Annual Conference of Society of Operations Management (SOM), Indian Institute of Technology, Madras, December 20-22, 2009

Association of Asian Pacific Operational Research Societies (APORS), Jaipuria Institute of Management, Jaipur, December 06-09, 2009.

12th Annual Conference of Society of Operations Management (SOM), Indian Institute of Technology, Kanpur, December 19-21, 2008.

2nd NTUS-IITK joint workshop in Mechanical, Aerospace and Industrial Engineering, Indian Institute of Technology Kanpur, India, April 5-6, 2008.

3rd Japan-India joint seminar on Production/Quality Control and Micro/Nano Manufacturing Science, Tokyo, March 10-14, 2008.

11th Annual Conference of Society of Operations Management (SOM), Symbiosis Institute of Operations Management, Nashik, December, 2007.

1st NTUS-IITK joint workshop in Mechanical, Aerospace and Industrial Engineering, Nanyang Technological University, Singapore, July 2007.

10th Annual Conference of Society of Operations Management (SOM), Indian Institute of Management Ahmedabad, December, 2006.

5th Annual Conference of the Singapore-MIT alliance, Singapore, January, 2005.

7th Annual Conference of SOM, Indian Institute of Management, Indore, India, December, 2003.

6th Annual Conference of SOM, Indian Institute of Management, Kozhikode, India, December, 2002.

5th Annual Conference of SOM, S P Jain Institute of Management & Research, Mumbai, India, December, 2001.

4th Annual Conference of SOM, Indian Institute of Technology Madras, Chennai, India, December, 2000.

- **Sponsored Research**

August 2020 - July 2021
Capacity Management During Pandemic
Grant by SERB, Govt. of India

July 2016 - October 2018. Analysis of Competitiveness of Start-ups in High-Tech Manufacturing in India. Grant by DST, India.

May 2012 - Dec 2015. Advanced Booking Discount under Bayesian Games
Grant by IIM Calcutta

Jan 2008 – Dec 2011
Modeling the supply chains of SEZs in India.
Grant by Neptune Orient Lines (Singapore based logistics company)

April 2008 – March 2012
Managing the Drug Discovery and Development Process in Bio-pharma supply chains.
Grant by DST, India and Research Council, UK (Joint project of IIT Kanpur, IIM Bangalore, and Nottingham Business School, UK.

May 2005 – April 2006
Initiation Grant by IIT Kanpur on Algorithms for Non-regular Scheduling Problems

Teaching

- **Courses taught at IIM Calcutta**

Supply Chain Management (PGP, PGPEX)
Manufacturing Strategy (VLFM)
Operations Management (PGP, PGPEX, PGPEX-VLFM)
Operations Research, Production & Inventory Control (Doctoral)

- **Courses taught at IIT Kanpur**

Production and Operations Management (MBA)
Supply Chain Management (MBA, VLFM)
Quantitative Models for Decision Making (MBA)

Operations Management (M-Tech, Doctoral)

Graduate Student Supervision

- IIM Calcutta: **Doctoral:**
Abhishek Shinde. 2016. Stochastic Inventory Decisions under Ambiguity: An Experimental Study

- IIT Kanpur: **Doctoral:**
K S Thyagaraj. 2011. Integrating Operations and Marketing Decisions to Manage Product Variety under Stochastic Demand.

- IIT Kanpur: **Masters:**
Rushikesh Kulkarni, 2006. Shelf space allocation models considering inventory level dependent demand.

Mohit Srivastava, 2007. Retail shelf space allocation and inventory policies with uncertain demand.

Aditya Joshi, 2007. Some new heuristics for solving multi-period assignment problems.

Pushkar Pandit, 2008. Minimizing completion time variance in permutation flow shop scheduling problem.

Girdhari Mandal, 2009. Minimizing mean absolute deviation from mean completion time in permutation flow shop scheduling problem.

Prashant Rai, 2009. Impact of aggregating supplies from single supplier to a cluster of producers: opportunities for Third Party Logistics service provider.

Lokendra Devangan, 2010. Supply chain contracts with inventory level dependent demand and random uncertainty.

Ajay Jha, 2010. Integration of Production Planning and Logistics Decisions to Manage Product Variety in Commit-to-Delivery Systems.

Trilochan Khambra, 2010. Contract Design For Demand Management: First Order Approach.

Lokesh Gupta, 2010. Role of 3PL services in a two-echelon system comprising single supplier and a cluster of multiple buyers.

Mohammad Zakaria, 2011. Analysis of manufacturer - supplier contracts in Indian commercial vehicle industry.

Syed Moiz Ali, 2011. Aggregate planning for semi-finished goods under make-to-stock environment.

Satyam Agarwal. 2012. Portfolio Management and Sequencing of Pipeline Drugs in the Pharmaceutical Industry

Vinod Parmar. 2012. Contract Design for R&D Licensing: A Case of Pharmaceutical Industry

Dinesh Pant. 2012. Inventory Management Guidelines for Aviation Rotables.

Awards and Memberships of Professional Bodies / Associations

- Professor of the year at IIMC - 2020 (an award based on students voting by a private firm iiminsider.com)
- President, Society of Operations Management (SOM), 2015 - 2018.
- General Secretary, Society of Operations Management (SOM), 2011 - 2015.
- Vice-President, IT & Communications, SOM, 2008-2010.
- **Teaching recognition at IIT Kanpur**
Received IIT Kanpur senate citation for teaching excellence for 16 courses taught since 2005. The citation is awarded on a rating score of more than 3.5/4.0 on instructor effectiveness based on student feedback survey.
- Member, POMS, since 2009
- Member, INFORMS, since 2005
- Best Doctoral Paper Award, SOM, 2002

Administration

IIM Calcutta

- Chairperson, MBA Programme Committee, 2020-21
- Chairperson, Post Graduate Program for Executives - Visionary Leaders for Manufacturing (PGPEX-VLM), April 2016 - March 2018.
- Chairperson, PGP Admissions, April 2014 - March 2016
- Chairperson, Residential Accommodation Allotment committee, August 2012 - July 2016.

- Member, IPC, 2020-22
- Member, PGP curriculum review committee, Nov 2016 - Sep 2018.
- Group Coordinator, Operations Management Group, April 2014 - March 2016.
- Member, PGPEX - VLM committee, April 2012 - March 2014.
- Member, Long Duration Program (LDP) committee, Jan 2016 - March 2018.
- Member, Post Graduate Diploma in Business Analytics (PGDBA) committee, Feb 2015 - March 2016
- Member, IIM Bodh Gaya Task Force committee, July 2015 - Dec 2017

IIT Kanpur

- Co-coordinator, Visionary Leaders for Manufacturing (VLFM) Program July 2007 – Nov 2011
VLFM is a one year diploma program jointly offered by IIM Calcutta, IIT Kanpur, and IIT Madras. Involved in designing, administering and teaching in the program since its inception in 2007.
- Member, Academic Review Committee (ARC) July 2008 – Nov 2011
ARC is constituted every ten years to review the UG and PG curriculum at IIT Kanpur.
- Convener, Department Post Graduate Committee (DPGC) Aug 2009 – Nov 2011
DPGC is responsible for all the academic affairs of the department including course structure, students' related academic matters
- Department Faculty Placement Coordinator Post Graduate Committee (DPGC) July 2005 – June 2007
- Member, Senate Library Committee, 2010-11
- Executive Committee, SIDBI Innovation and Incubation Centre, 2006 - 2011

Professional Activities

- Member, Science and Engineering Research Board (SERB) Programme Advisory Committee (PAC) on SERB - SUPRA Scheme constituted under DST, Govt. of India, 2019 - 2022.

- **Editorial Activities**

Ad-hoc reviewer in IJPR, IJPE, IJRDM, Annals of OR, and EJOR

- Doctoral thesis examiner: IIM Bangalore, IIM Indore, IIT Madras, IIT Bombay, NITIE

- **Invited Talks**

Theme Chair for 2015 Indo-German Frontiers of Engineering flagship meeting co-hosted by the German Foreign Office, Alexander von Humboldt Foundation, Bonn, Germany, and Department of Science and Technology

Quality Circle Forum of India, Kolkata

Practice and Research in Management, DEI, Agra

- Conference Co-Chair, 19th Annual Conference of the Society of Operations Management, 2015
- Conference Chair, 12th Annual Conference of the Society of Operations Management, 2008
- **Collaboration with Industry**
 - Coordinator and Instructor for several MDPs on Supply Chain Management and Operations Strategy since 2005.